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(54) Title: ESTIMATING BIOFILM BIOMASS ON OBJECTS IN AN AQUATIC ENVIRONMENT

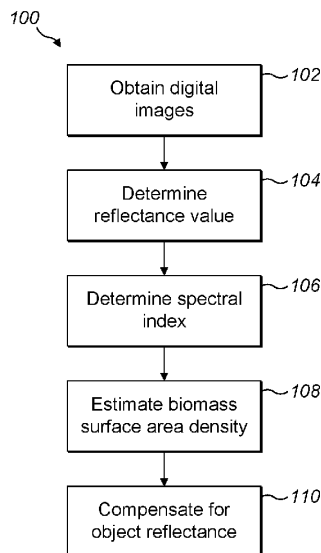


FIG. 12

(57) Abstract: System and method for estimating aquatic environment-originating biofilm biomass on a coating of an object. The method includes obtaining one or more digital images of a fouled portion of the coating on the object and determining from each of the one or more images a respective reflectance value for the portion of the coating. The method includes determining on the basis of the one or more reflectance values a value of a spectral index representative of biomass and calculating a biomass pigment surface area density on the basis of the spectral index, SI, and one or more calibration values determined for a reference coating. The method includes compensating the calculated biomass pigment surface area density for the reflectance of the coating of the object by applying a compensation associated with the difference of the reflectance of the coating of the object relative to the reference coating.

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